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Title: JP200035555A2: PRODUCTION OF DIELS-ALDER REACTIONAL PRODUCT USING PREHEATER

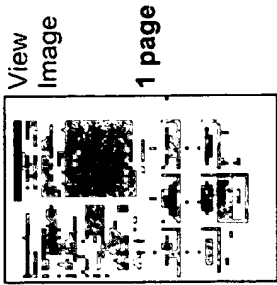
Derwent Title: Manufacture of diels-alder reaction product especially tetracyclo dodecene involves pre-heating cyclopentadiene derivative and alpha-olefin through pipe like pre-heater containing mixer
[Derwent Record]

Country: JP Japan
Kind: A2 Document Laid open to Public inspection
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Application Number: JP1999000163761
IPC Code: C07C 2/50; C07C 13/42; C07C 13/66;

Priority Number: 1999-06-10 JP1999000163761

Abstract: PROBLEM TO BE SOLVED: To produce the subject product having a high effective yield of an α -olefin in a reaction by a stable operation over a long period by preheating a specific diene compound with the α -olefin, heating up the resultant mixture and then carrying out the reaction.
SOLUTION: A cyclopentadiene derivative (e.g. cyclopentadiene) and an α -olefin (e.g. ethylene) are passed through a heat exchanger as a preheater having a mixing element in a pipe conduit, preheated and then reacted to produce the above product



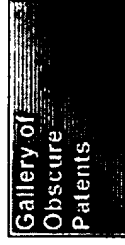
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(e.g. tetracyclododecene). The preheating is preferably carried out by passing both through the interior of the preheater having the plurality of mixing elements so as to provide ≥ 100 Reynolds' number (Re) represented by the formula $Re=DG/\mu$ [D is the inside diameter (m); G is the mass velocity (kg/m²s); μ is the viscosity (kg/m.s)]. A fluid is preferably heated at $\geq 130^{\circ}\text{C}$ with the preheater. The reactional pressure is preferably ≤ 10 MPa and the space velocity is 0.001-100 h⁻¹.

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